

Preliminary DRAFT Cedar River Tributaries Chinook Population - Tier 2 - Initial Habitat Project List

Includes Potential Restoration and Protection Projects by Reach.

Walsh Ditch Reaches 1-8

WRIA 8 Technical Recommendation: The WRIA 8 Technical Committee recommends that the benefits of re-directing Walsh Ditch back into Upper Rock Creek versus keeping it at its current location be studied. Walsh Ditch was not evaluated in its current location pending such a study and because there is no "template condition" to compare to the stream's existing habitat conditions. The benefits of re-directing the stream to its original watershed could be analyzed during treatment phase of EDT.

PLEASE NOTE: Following potential site-specific projects are actions that could be taken to improve Walsh Ditch for Chinook if it remains in its current location.

Reach 1: Walsh Ditch from mouth to RM 0.2 (bottom of ravine)

Restoration

Technical Hypothesis:

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--|----------------------------|--------------|---|-----------------------------|-----------------|
| C353 | 1 | not ranked | new | Riparian Restoration and Conifer Underplanting: Lower Walsh suffered heavy tree loss during 2004 windstorm. Replant with conifers and maintain riparian area to prevent invasion by non-native, invasive plant species. | Y | | LWD is not needed in reach due to past restoration project to add LWD and the 2004 windstorm. | H | H |

Protection

Technical Hypothesis:

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | 1 | not ranked | | | No projects identified at this time. | | | | | |

Reach 2: Walsh Ditch from RM 0.2 to RM 0.6 (seasonal barrier, top of ravine); End Chinook Distribution

Restoration

Technical Hypothesis:

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--|----------------------------|--------------|---|-----------------------------|-----------------|
| C354 | 2 | not ranked | new | Riparian Restoration and Conifer Underplanting: Lower Walsh suffered heavy tree loss during 2004 windstorm. Replant with conifers and maintain riparian area to prevent invasion by non-native, invasive plant species. | Y | | LWD is not needed in reach due to past restoration project to add LWD and the 2004 windstorm. | H | H |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | 2 | not ranked | | | No projects identified at this time. | | | | | |

Reach 3: Walsh Ditch from RM 0.6 (seasonal barrier) to RM 1.1 (SPU Watershed Boundary, 276th Ave SE)**Restoration****Technical Hypothesis:**

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--|----------------------------|--------------|---|-----------------------------|-----------------|
| C355 | 3 | not ranked | new | Improve Fish Passage: Improve Chinook passage over velocity barrier in ravine. | Y | | Concern raised that Reach 3 is ditched and unlikely to be used by large-bodied Chinook. | M/L | H |
| C356 | 3 | not ranked | new | Protect Riparian Corridor in Reach 3: Work with private property owners in reach to protect riparian corridor and forest cover in reach through acquisition, conservation easements, education and farmplans for livestock. | Y | | Most of Walsh is in protective ownership except for Reach 3. | H/M | H/M |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | 3 | not ranked | | | No projects identified at this time. | | | | | |

Reach 4: Walsh Ditch from RM 1.1 (SPU Watershed Boundary) to RM 1.6 (lower end of "natural" reach)**Restoration****Technical Hypothesis:**

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | No projects identified at this time. | | | | | |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | | No projects identified at this time. | | | | | |

Reach 5: Walsh Ditch from RM 1.6 (lower end of "natural" reach) to RM 2.1 (upstream end of "natural" reach)**Restoration****Technical Hypothesis:**

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | No projects identified at this time. | | | | | |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | | No projects identified at this time. | | | | | |

Reach 6: Walsh Ditch from RM 2.1 (upstream end of "natural" reach) to 40/18 Rd Junction (RM 3.8)**Restoration****Technical Hypothesis:**

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | No projects identified at this time. | | | | | |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | | No projects identified at this time. | | | | | |

Reach 7: Walsh Ditch from 40/18 Rd Junction (RM 3.8) to Walsh Lake outlet (RM 4.1)**Restoration****Technical Hypothesis:**

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits with Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--------------------------------------|-------------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | No projects identified at this time. | | | | | |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | | not ranked | | | No projects identified at this time. | | | | | |

Reach 8: Walsh Lake**Restoration****Technical Hypothesis:**

| Project # | Reach # | Reach Restor. Benefit Rank | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|----------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | 8 | not ranked | | No projects identified at this time. | | | | | |

Protection**Technical Hypothesis:**

| Project # | Reach # | Reach Prot. Benefit Rank | Existing Prot. Priority (Y/N) | NTAA # | NTAA Name & Description | Fits w/Tech. Hypoth. (Y/N) | Approx. Cost | Notes, Key Uncertainties | Benefits to Chinook H, M, L | Feasib. H, M, L |
|-----------|---------|--------------------------|-------------------------------|--------|--------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|-----------------|
| | 8 | not ranked | | | No projects identified at this time. | | | | | |